

BRIEF DESCRIPTION OF THE DRAWINGS

The novel features believed characteristic of the invention are set forth in the appended
5 claims. The invention itself however, as well as a preferred mode of use, further objects and
advantages thereof, will best be understood by reference to the following detailed description of an
illustrative embodiment when read in conjunction with the accompanying drawings, wherein:

Figure 1A is a view looking down on the surface of a voltage-controlled diffusion
resistor after the regions have been implanted but before contacts are added, in accordance with a
10 preferred embodiment of the present invention;

Figures 1B-1D are cross-sections of the voltage controlled diffusion resistor of **Figure**
1A, shown after contacts have been formed. These figures demonstrate contacts with a salicide
on the substrate under the contact for both diodes and endpoints of the resistor;

Figure 1E is an enlargement of the central region of **Figure 1D**, showing the distances in
15 terms of the depletion regions;

Figures 2A-2G are diagrams illustrating the cross-section of the resistor shown in **Figure**
1C at various processing steps for creating the resistor in accordance with a preferred
embodiment of the present invention; and

Figure 3 is a schematic diagram of a radio frequency (RF) driver or receiver circuit with
20 RF feedback in accordance with a preferred embodiment of the present invention.